# UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF NEW YORK

In re Terrorist Attacks on September 11, 2001 03 MDL 1570 (GBD)(SN)

ECF Case

This document relates to:

Ashton, et al. v. al Qaeda Islamic Army, et al., 02-cv-6977 (GBD) (SN)

# DECLARATION OF PLAINTIFF KRISTEN BREITWEISER IN SUPPORT OF DEFAULT JUDGMENT APPLICATION AGAINST THE TALIBAN

Kristen Breitweiser, pursuant to 28 U.S.C. § 1746, declares under the penalty of perjury under the laws of the United States of America, that the following is true and correct:

- 1. I am the court-appointed personal representative of the Estate of Ronald M. Breitweiser, who perished at the World Trade Center as a result of the terrorist attacks on September 11, 2001.
- 2. I submit this Declaration on my own behalf as the surviving spouse of Ronald M. Breitweiser, and on behalf of the only other New Jersey State designated "heir" of my late husband, our one child, Caroline Breitweiser.
- 3. I can affirm to the Court that my deceased husband lived with me and our one child at a private home at 268 Monmouth Avenue, Atlantic Highlands, NJ 07716 at the time of his death. I can further affirm that my child and I were the only "immediate family members" living with my husband and that no other family member lived with us (or was dependent on my husband financially or emotionally) at the time of his death.
- 4. For the foregoing reasons, I ask that the Court to deem my child and me as the only "immediate family members" of Ronald M. Breitweiser.

- 5. My attorney (John F. Schutty) has advised me that under New Jersey State estate administration law, when a decedent is survived by a spouse and a child, they are considered the decedent's only "legal heirs" (New Jersey estate administration law explicitly denies parents and siblings of a decedent any wrongful death damages under such circumstances).
- 6. My attorney has completed a search of the MDL docket and advised me about the substantial wrongful death damages that were awarded against the Islamic Republic of Iran ("Iran") and in favor of many "non-heirs" under applicable state law.
- 7. I was dismayed to learn how large the awards were to the non-heirs and even more dismayed to learn how these judgments affected/reduced the distribution of money from the U.S. Victims of State Sponsored Terrorism Fund ("USVSST"), a fund with limited assets, to me and my child.
- 8. For example, I have reviewed the accompanying Declaration of Patricia Ryan and the Declaration of Lisa O'Brien (MDL ECF#8961) and was shocked to see the large awards made to non-heirs against the Islamic Republic of Iran and the damage awards now sought by non-heirs against the Taliban.
- 9. Upon information and belief, awards against Iran were granted to non-heirs without regard to whether the statute of limitations of the Foreign Sovereign Immunities Act was satisfied (a 10-year statute of limitations). And non-heirs and heirs then proceeded into the USVSST where a limited amount of funds were available to be shared amongst claimants. Undeniably, my child and I were hurt by the award of wrongful death damages to non-heirs and the resulting payments by the USVSST.
- 10. Again, a limited fund of money (if any) is expected to be available to all plaintiffs making claims against the Taliban. Again, awards to non-heirs, and those who have filed

amongst claimants. Undeniably, my child and I were hurt by the award of wrongful death damages to non-heirs and the resulting payments by the USVSST.

- 10. Again, a limited fund of money (if any) is expected to be available to all plaintiffs making claims against the Taliban. Again, awards to non-heirs, and those who have filed untimely claims, will, at a minimum, reduce the recoveries of my child and me from the Taliban and any limited fund of money that may be available.
- 11. I expressly object to the Court making wrongful death awards to "non-heirs."
- 12. I also object to the Court issuing awards to plaintiffs who have filed claims after the statute of limitations has expired. This Court apparently has previously determined that one wrongful death lawsuit, filed by any family member, protects any subsequent wrongful death lawsuit filed by any other family member of the decedent, against the statute of limitations. See, e.g., ECF MDL#5095 at 1, 5096 at 1 and 5097 at 1. Please do not allow non-heirs to "piggy-back" on timely legal actions, and then reduce the wrongful death damage money paid to my late husband's heirs.

Dated: New York, New York April \_20\_, 2023

I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct.

Kristen Breitweiser

# **EXHIBIT A: KRISTEN BREITWEISER DECLARATION**

Estate	Immediate Family Members (Heirs)	Relationship	Solatium Damages	Conscious Pain & Suffering	Economic Loss	TOTALS		
Estate of Ronald M. Breitweiser	Breitweiser, Kristen	Spouse/PR	\$12,500,000.00	\$2,000,000.00	\$45,385,507.00	\$59,885,507.00		
	Breitweiser, Caroline	Child	\$ 8,500,000.00			\$ 8,500,000.00		
<b>Total Judgment</b>	Total Judgment to Personal Representative for Entry of Partial Final Judgments Against Taliban							

# APPRAISAL OF ECONOMIC LOSS

# Ronald Breitweiser

Prepared for: Jeanne M. O'Grady, Esq.
SPEISER KRAUSE
Counsellors at Law
800 Westchester Avenue
Suite South 608
Rye Brook, NY 10573

Prepared by: Gary M. Crakes, PhD

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# MAHER, CRAKES AND ASSOCIATES

# ECONOMIC CONSULTANTS 860 WARD LANE CHESHIRE, CONNECTICUT 06410

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JOHN MAHER, PHD 1925 · 2005 GARY M. CRAKES, PHD

June 28, 2017

RE: Ronald Breitweiser

Jeanne M. O'Grady, Esq. SPEISER KRAUSE Counsellors at Law 800 Westchester Avenue Suite 608 Rye Brook, NY 10573

Dear Ms. O'Grady:

The following report on the economic loss of the above named is an objective estimate of the loss in this case, measured as scientifically and accurately as the data permit.

If you have questions about calculations or concepts or feel that additional aspects should be explored, please contact us. Exhibit I and II in this report are prepared to be suitable as enlargements for use at trial.

If the case is not settled, please schedule time for appearance at trial sufficiently in advance that we may plan accordingly.

Respectfully submitted,

Gary M. Crakes, PhD

GMC:dc

# Discussion of appraisal: Ronald Breitweiser

Ronald Breitweiser was born (1962.59) and died September 11, 2001 (2001.70) at age 39.11 years with life expectancy of 37.50 years and work-life to age 70 of 30.89 years. See Exhibit II.

In this appraisal of the economic loss of earning capacity, we have calculated the lifetime earnings of Ronald Breitweiser with work-life to age 70 based on an average annual earnings rate of \$2,400,000. The average annual earnings rate is based upon the report of Dr. Thomas R. Kershner dated January 29, 2003. In that report, Dr. Kershner relied on numerous interviews he conducted of Mr. Breitweiser's colleagues and supervisors, as well as individuals who had extended employment offers to Mr. Breitweiser prior to his death. The annual earnings rate employed as the starting point in the present report is derived from the extensive analysis of Dr. Kershner.

Calculation of the value of lifetime earnings based on an average annual earnings rate of \$2,400,000 results in earnings loss for the 16.30 years in the past of \$48,208,464 with adjustment for each year in the past by the annual percentage change in general levels of earnings. Calculation of future discounted earnings assumes that the future average annual rate of growth of earnings will be equal to the discount rate. With this assumption and current estimated annual earnings of \$3,561,192, future discounted earnings are \$51,957,791. Total discounted lifetime earnings based on an average annual earnings rate of \$2,400,000 are \$100,166,255. This value appears as the first entry to the summary, Exhibit I.

Further shown in the summary, Exhibit I, is a deduction for federal, state, and city income taxes of 50.00% of earnings. The percentage for federal income tax was obtained using tax rates for the years in the past and the tax rates from the federal personal income tax schedule displayed in Exhibit IV. (Exhibit V presents historical tax rates from 1947 to 2014 and demonstrates the relatively small percentage point changes in rates over time.) With

the deduction for federal, state, and city income taxes, after-tax discounted economic loss is \$50,083,127.

Next shown in Exhibit I is a deduction of 10% of gross earnings as an allowance for personal maintenance expenses. (See Consumer Expenditures in 2015, U.S. Department of Labor, Bureau of Labor Statistics, April, 2017.) With this deduction, discounted economic loss is \$40,066,501.

Finally, we have included two additional values. First, we have included the value of fringe benefits calculated at 5% of earnings. (For the average benefit payments in the United States, see Exhibit VI with data from the Bureau of Labor Statistics, U.S. Department of Labor.) Second, we have included the value of Ronald Breitweiser's household Data for the estimate are presented in services. Exhibit VII and are derived from "Time Use During the Great Recession", Mark Aguiar, Erik Hurst, and Loukas Karabarbounis, American Economic Review, August, 2013 and wage rates from the Bureau of Labor Statistics, U.S. Department of Labor. Adjustment and application of the appropriate values provides an estimate of discounted loss of \$310,693, canceling future rates of increase by the discount rate. With the addition of these values, discounted economic loss is \$45,385,507. See Exhibit I.

It is our opinion that the discounted economic loss in this case is \$45,385,507.

# Summary of appraisal: Ronald Breitweiser

			Discounted values
I	Basic earnings based on 2001 annual earnings rate of \$2,400,000		\$100,166,255
II	Less federal, state, and city income taxes at 50% of earnings		- 50,083,128
		Subtotal	\$ 50,083,127
III	Less personal maintenance at 10% of earnings		- 10,016,626
		Subtotal	\$ 40,066,501
IV	Plus value of fringe benefits		5,008,313
		Subtotal	\$ 45,074,814
v	Plus value of household services		310,693
	Total net discounted economic loss		\$ 45,385,507

Exhibit II

# WORK-LIFE AND LIFE EXPECTANCY

# Ronald Breitweiser

	Year and fractional equivalent	Number of years
A. Date of birth:		
	1962.59	
B. As of date of death:		
September 11, 2001	2001.70	
1. Age		39.11
2. Work-life to age 70		30.89
3. Life expectancy		37.50

# Source:

3. National Vital Statistics Reports, 2001,
U. S. Department of Health and Human Services,
National Center for Health Statistics, Volume 52, Number 14,
February 18, 2004.

TABLE 98. Average Hourly Earnings of Production or Nonsupervisory Workers 1 on Private Nonagricultural Payrolls, by Industry Division, 1932-74

(In dollars)

		Contract	] 1			factur- ports is				Finance,			
Year and month	Total Mining construc-		Durable goods	Nondur- able goods	ing excluding overtime	excluding public		Whole-sale	Retail and real estate 2		Serv- ices		
1932				0.441	0.492	0.412							
1933				. 437	. 467	.419				;			
1934				. 526	. 550	. 505							
1936				.544	. 571	. 520							
1936				. 550	. 580	.519				.628			
1987				.617 .620	. 667 . 679	. 566 . 572	********			.658			
1938			•	.627	. 691	.571			********	.688	0.484		
1939				.655	.716	.590				.711	. 494		
1941				.728	. 799	. 627	0, 691			.763	. 518		
1942				. 881	. 937	. 709	. 798			. 828	. 559		
1943				. 957	1.048	. 787	. 881			. 898	. 606		
044				1.011	1. 108	.844	. 933			. 948	. 653		
1945				1.016	1.099	. 886	3.949			. 990	. 699		
946				1.075	1.144	. 995	1.035			1. 107	. 797		
947	1, 131	1.469	1. 541	1.217	1.278	1.145	1.18		0.940	1.220	4.838	1.140	
948	1. 225	1.664	1.713	1.328	1. 395	1.250	1. 29		1.010	1.308	. 901	1.200	
249		1.717	1.792	1.378	1.453	1. 295	1.34		1.060	1.360	. 951	1. 250	
580		1.772	1.863	1.440	1.819	1.347	1.39		1.100	1.427	. 983	1.340	
381	1.45	1.93	2.02	1.56	1.65	1.44	1.51		1.18	1.52	1.06	1.45	
952	1.52	2.01	2.13	1.65	1.75	1.51	1.59		1.23	1.61	1.09	1.51	
953	1.61	2.14	2.28	1.74	1.86	1.58	1.68		1.30	1.70	1.16	1.58	•••••
354	1.65	2.14	2.39	1.78	1.90	1.62	1.73		1.35	1.76	1.20	1.65	
255	1.71	2.20	2.45	1.86	1.99	1.67	1.79		1.40	1.83	1. 25	1.70	
1956	1.80	2.33	2.57	1.95	2.08 2.19	1.77	1.99		1.47	1.94	1.30	1.78	
957	1.89	2.46	2.71	2.05	2.26	1.85 1.91	2.05		1.54	2.02	1.37	1.84	
988	1.95 2.02	2.47 2.56	2.82 2.93	2.19	2.36	1.98	2.12		1.60 1.66	2.09 2.18	1.42	1.89 1.95	• • • • • • • • • • • • • • • • • • • •
1959	2.09	2.51	3.08	2.26	2.43	2.05	2, 20		1.71	2.24	1.52	2.02	•••••
1961	2.14	2.64	8.20	2.32	2.49	2.11	2, 25		1.76	2.31	1. 55	2.09	•••••
1982	2 22	2.70	3.31	2.39	2. 56	2.17	2.71		1.83	2.37	1, 63	217	•••••
1963	2.28	2.75	3.41	2.45	2, 63	2, 22	2.37		1.89	2.45	1.68	2, 25	
964	2.36	2.61	3.55	2.53	2.71	2.29	2.44	2.88	1.96	2. 52	L 75	2.30	1.94
965	2.45	2.92	3.70	2.61	2. 79	2.36	2.51	3.03	2.03	2.61	1.82	2.39	2.05
1966	2.56	3.65	8.89	2.72	2.90	2.45	2.59	3.11	2.13	2.73	1.91	2.47	2.17
1947		3.19	4.11	2.83	3.00	2, 57	2.7	3.24	2.24	2.88	2.01	2, 58	2, 29
1968	2.85	3.35	441	3.01	3. 19	2.74 2.91	2.88 3.06	3. 42 3. 64	2.40	3.05	2.16	2.75	2.42
1989	3.04 3.22	3.61 3.85	4.79 5.24	2. 19 3. 36	3. 38 3. 55	2.91	3.00	3.85	2.55 2.71	3.23 3.44	2.30	2.93	2.61
1970	3.44	4.06	5.69	3. 57	3. 33	3.26	8.44	4, 21	2.86	3.67	2.44	3.08 3.27	2. 81 3. 02
1971	3.67	441	6.03	3.81	4.06	3.47	3.66	1.64	3.01	3.88	2.70	3.42	
1972	8.92	1.72	6.28	4.07	1.33	3.68	3.89	5.03	3. 20	4, 12	2.57	3.57	3. 23 3. 46
1973	4.22	5.20	6.76	4.40	4.68	3.98	23	5.40	3.47	1.49	ã 10	3.81	3. 74
LY/1			0.70	T. 10	- UO	0.90	- 20	v. 100	U. 11	-13	G- AU	0.01	0. / 1

Data relate to production workers in mining and manufacturing: to construction workers in contract construction; and to nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.

Prior data are as follows:

THE DIE BY LULLUMS.		
1909 0. 191	1922 0, 482	1927 0, 544
1914 221	1923 516	1928 556
1919 472	1924 541	1929 560
1920 549	1925 541	1930 546
1921 600	1024 842	1921 F00

<sup>3</sup> Excludes data on nonoffice salespersons.
<sup>4</sup> Beginning 1947, includes data on eating and drinking places.
<sup>5</sup> 11-month everage.
<sup>8</sup> Prior to January 1956, data were based on the application of adjustment factors to gross average hourly earnings. (For a detailed description see the Monthly Labor Review, May 1950, pp. 537-540; reprint available, serial No. R 2020.)

Norz: Data include Alaska and Hawaii beginning 1959,

Private Sector					Service Industry						
1975 1976 1977 1978 1979 1980 1981 1982 1983	\$ 4.53 4.86 5.25 5.69 6.16 6.66 7.25 7.68 8.02 8.33	1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	\$11.03 11.32 11.64 12.03 12.49 13.00 13.47 14.00 14.53 14.95	2011 2012 2013 2014 2015 2016	\$19.46 19.77 20.14 20.60 21.03 21.56	1975 1976 1977 1978 1979 1980 1981 1982 1983	\$4.02 4.31 4.65 4.99 5.36 5.85 6.41 6.92 7.30 7.64	1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	\$10.60 10.87 11.19 11.57 12.05 12.59 13.07 13.60 14.16 14.56	2011 2012 2013 2014 2015 2016	\$19.21 19.52 19.91 20.36 20.83 21.34
				,		1983	7.30	2001	14.16		
1988 1989 1990 1991 1992	9.29 9.66 10.19 10.50 10.76	2006 2007 2008 2009 2010	16.76 17.43 18.08 18.62 19.04			1988 1989 1990 1991	8.88 9.39 9.71 10.05	2006 2007 2008 2009	16.42 17.11 17.77 18.35		

Source: Bureau of Labor Statistics, U. S. Department of Labor

Federal Income Tax Schedules for Individuals: Tax tables, standard deductions and personal exemptions, 2016 and 2017

Standard deducti	one and person	ar exemptions, 2010 and	2027
2016		2017	
Tax Rates	for Married Co	ouples Filing Jointly	
Taxable Income	Rate	Taxable Income	Rate
\$0 <b>-</b> \$18,550	10%	<b>\$0-</b> \$18,650	10%
\$18,550-\$75,300	15%	\$18,650-\$75,900	15%
\$75,300-\$151,900	25%	\$75,900-\$153,100	25%
\$151,900-\$231,450	28%	\$153,100-\$233,350	28%
\$231,450-\$413,350	33%	\$233,350-\$416,700	33%
\$413,350-\$466,950	35%	\$416,700-\$470,700	35%
Over \$466,950	39.60%	Over \$470,700	39.60%
Tax Rates	for Individuals	Filing Single Returns	
Taxable Income	Rate	Taxable Income	Rate
\$0-\$9,275	10%	\$0-\$9,325	10%
\$9,275-\$37,650	15%	\$9,325-\$37,950	15%
\$37,650-\$91,150	25%	\$37,950-\$91,900	25%
\$91,150-\$190,150	28%	\$91,900-\$191,650	28%
\$190,150-\$413,350	33%	\$191,650-\$416,700	33%
\$413,350-\$415,050	35%	\$416,700-\$418,400	35%
Over \$415,050	39.60%	Over \$418,400	39.60%
Tax Rates for	Individuals Fi	ling as Head of Househo	1d
Taxable Income	Rate	Taxable Income	Rate
\$0-\$13,250	10%	\$0-\$13,350	10%
\$13,250-\$50,400	. 15%	\$13,350-\$50,800	15%
\$50,400-\$130,150	25%	\$50,800-\$131,200	25%
\$130,150-\$210,800	28%	\$131,200-\$212,500	28%
\$210,800-\$413,350	33%	\$212,500-\$416,700	33%
\$413,350-\$441,000	35%	\$416,700-\$444,550	35%
Over \$441,000	39.60%	Over \$444,550	39.60%
Tax Rates for	r Married Indiv	iduals Filing Separatel	<b>-y</b>
Taxable Income	Rate	Taxable Income	Rate
\$0-\$9,275	10%	<b>\$0-</b> \$9,325	10%
\$9,275-\$37,650	15%	\$9,325-\$37,950	15%
\$37,650-\$75,950	25%	\$37,950-\$76,550	25%
\$75,950-\$115,725	28%	\$76,550-\$116,675	28%
\$115,725-\$206,675	33%	\$116,675-\$208,350	33%
\$206,675-\$233,475	35%	\$208,350-\$235,350	35%
Over \$233,475	39.60%	Over \$235,350	39.60%
Standard Deduction		Personal E	kemption
·	2016 201	2016	2017
Married, joint	\$12,600 \$12,7	700 \$4,050 \$4	4,050
Single		350	+,000
Head of household		350 350	
Married, separate	•	350 350	
marrieu, separate	0,500 0,5	JJ0	

Taxable returns: Adjusted gross income (AGI), income tax, and tax ratio, 1947-2014

Year	Adjusted gross income (AGI) billions of \$	Income tax in billions of \$	Ratio of tax to AGI	Year	Adjusted gross income (AGI) billions of \$	Income tax in billions of \$	Ratio of tax to AGI
				1988		411.8	1277
1947	135.3	18.1	.1336 .1087	1989	2,989.9 3,158.3	432.1	.1377 .1368
1948	142.1	15.4 14.5	.1049	1999	3,298.9	446.3	.1353
1949 1950	138.7 158.5	18.4	.1160	1991	3,335.2	447.2	11341
1950	185.1	24.2	.1309	1992	3,483.9	474.9	.1363
1951	198.5	27.8	.1401	1993	3,564.0	500.7	.1405
1953	212.4	29.4	.1386	1994	3,736.6	532.6	.1425
1954	209.7	26.7	.1272	1995	4,007.6	586.1	.1462
1955	229.6	29.6	.1290	1996	4,341.9	655.4	.1510
1956	249.6	32.7	.1312	1997	4,785.2	727.3	.1520
1957	262.2	34.4	.1312	1998	5,160.2	783.5	.1518
1958	262.2	34.3	.1310	1999	5,580.8	870.9	.1561
1959	287.8	38.6	.1332	2000	6,083.3	980.5	.1612
1960	297.2	39.5	.1330	2001	5,847.1	887.9	.1519
1961	311.3	42.2	.1356	2002	5,641.1	797.0	.1413
1962	330.6	44.9	.1358	2003	5,746.6	748.0	.1302
1963	350.4	48.2	.1376	2004	6,265.5	832.0	.1328
1964	376.0	47.2	.1254	2005	6,856.7	934.8	.1363
1965	400.3	49.5	.1209	2006	7,439.5	1,023.9	.1376
1966	450.2	56.1	.1246	2007	8,072.3	1,115.8	.1370
1967	487.4	62.9	.1291	2008	7,583.5	1,031.6	.1362
1968	538.3	76.6	.1424	2009	6,777.7	865.9	.1278
	588.2	86.6	.1472	2010	7,246.2	951.7	.1313
1969		83.8	.1370	2010	7,693.2	1,045.5	
1970	610.3	85.2	.1370	2011	8,442.2	•	.1359
1971	651.3	93.6	.1309	2012		1,188.0	.1407
1972	717.4 799.7	108.1	.1350	2013	8,426.0 9,102.6	1,218.5	.1446 .1489
1973 1974	800.2	123.7	.1410	2014	9,102.0	1,355.3	•1409
	893.3	124.4	.1385				
1975 1976	1,004.4	140.8	.1402				
			.1444				
1977 1978	1,097.7 1,241.2	158.5 186.7	.1504				
1979	1,402.2	213.3	.1521				
1980	1,556.1	249.1	.1601				
1981	1,721.2	282.3	.1640				
1982	1,803.8	277.6	.1539				
1983	1,895.2	274.2	.1447				
1984	2,110.5	304.0	.1440				
1985	2,259.0	321.9	.1425				
1986	2,440.2	360.6	.1478	•			
1987	2,700.8	367.5	.1361				

Source: Annual issues of <u>Individual Income Tax Returns</u>, Statistics of Income, Internal Revenue Service

Table 1, Employer costs per hour worked for employee compensation and costs as a percent of total compensation: civilian workers, by major occupational and industry group, September 2016

	Occupational group							
Compensation component	wa	All rkers <sup>1</sup>	profe	gement, esionel, ind isted	1 .	sics md Mcs	Se	rvice
	Cost	Percent	Cost	Percent	Cost	Percent	Cost	Percent
Total compensation	\$34,15	100.0	\$56.67	100.0	\$24,95	100.0	\$17.79	100.0
Wages and salaries	23,42	69.9	38.85	68.2	17.58	70.4	12.72	71.5
Total benefits	10.73	31.4	18,01	31,8	7.38	29.6	6.07	28.5
Paid leave	2.36 1.15	6.9 3.4	4.49 2.17	7.9 3.8	1.65 0.62	6.6 3.3	0.59 0.42	5.0 2.4
Holdsy	0.71	2.1	1.30	2.3	0.50	2.0	Q.28	1.6
SickPersonal	0.35 0.14	0.4	0.72 0.29	1.3 0,5	0.21 0.11	0,9 0.4	0.14 0.05	0.8 0.3
Supplemental pay	1,05	3.1	2.02	3.6	0.58	2.3	0.29	1,6
Shift differentials	0.26 0.06	0.8 0.2	0.17 0.68	0.3 0.1	0.15 0.02	0.6 0.1	0.15 0.05	0.6 0.3
Nonproduction bonuses	0,74	2.2	1.77	3.1	0.42	1,7	0.09	0.5
trisurance	3.00 0.04	6.8 0.1	4.60 0.68	6.1 0.1	2.37	9,5	1,41 0,02	7.9 0.1
Health	2.85	8,4	4.38	7.7	2.27	9.1	1.37	7.7
Short-term disability Long-term disability	0.05 0.05	0.2 0.1	0.09 80.0	0.2 0.1	0.04 0.03	0.2 0.1	(5)	( <sup>0</sup> .1
Retrement and savings	1.78	5.2	3.35	6.9	0.80	3.9	0.79	4.4
Defined benefit	1,11 0,66	3.2 1.9	2.08 1.27	3.7 2.2	0.44 0,45	1.8	, 0,64 0,15	3,6 0,9
Legally required benefits	. 2.56 1,69	7.5 5.5	3.55 3.00	6.3 5.3	1,68 1,48	7,5 5,8	1.69	9.5
Social Security and Medicare	1,50	4.4	2.35	4.5	1.17	4.7	1,09 0,85	5,9 4.6
MedicareFederal unemployment insurance	0,39 0.03	1,1 0,1	0.65 0.02	(8)	0.29 0.04	1.1 0.1	0,21 0.04	1.2 0.2
State unemployment insurance	0.17	0.5	0.18	0.3	0,16	0.6	0.15	0.9
Workers' compensation	0.47	1,4	0.37	0.7	0.23	0.9	0.44	2.5
	ļ		onad group			Industr	y group	
		turef	Prod	uction, ortston.	_			
Compensation component	reso	turel urces, ruction,	Prode transpi	ortsiion, nd		industr ods- ucing <sup>2</sup>	Ser	vice- kling <sup>3</sup>
	const	turei urces,	Prode transpo	ortston.		ods-	Ser	
	const	turel urces, ruction, and	Prode transpo	ortston, nd terisi		ods-	Ser	
	reso const e maint	turel truces, ruction, and enence	Prode transpi a ma	ortsSon, nd lerisi ving	prodi	ods- ucing <sup>2</sup>	Ser provi	lding <sup>3</sup>
component	reso const e maint	turel trees, ruction, and ensure	Productionspin	ortation, nd terial ving Percent	Cost	ods- ucing <sup>2</sup>	Ser provi	Percent
Component Total compensation	reso const maint Cost	turel turces, ruction, nd ensuce Percent	Productions production of the state of the s	Percent 100,0 65.8 34.2	Cost \$39,02	Percent	Ser provi	Percent
Toist compensation	reso const	turel turces, ruction, and enerce Percent 100.0 68.6 33.2 5.3	Prode transport of the service of th	Percent 100,0 65.8 34.2	Cost \$39.02 25.68 13.14 2.53	Percent 100.0 66.3 33.7	Cost \$33.30 22.89 10.31 2.33	Percent 100.0 69.0 31.0 7.0
Total compensation	reso const	tures, ruction, and ensures Percent 100.0 66.6 33.2 5.3 2.7 1.8	Productions production from the production fro	Percent 100.0 65.8 34.2 6.0 3.0 2.0	\$39.02 25.68 13,14 2.53 1.31 0.88	percent 100.0 66.3 33.7 6.5 3.4 2.2	Cost \$33.30 22.89 10.31 2.33 1.13 0.68	Percent 100.0 69.0 31.0 7.0 3.4 2.0
Total compensation	reso const  maint  Cost  \$34.94  23.34  11.81  1.88  7.94	tures, ruction, and ensures Percent 100,0 68.6 33.2 5.3 2.7	Production of the state of the	Percent 100,0 65.8 34.2 6.0 3.0	Prod: Cost \$39.02 25.68 13.14 2.53 1.31	Percent 100.0 66.3 33.7 6.5 3.4	Cost \$33.30 22.89 10.31 2.33 1.13	Percent 100.0 69.0 31.0 7.0 3.4
Total compensation	reso const maint Cost \$34.94 23.34 11.81 1.88 0.94 0.81 0.21 0.10	turel turces, ruction, and ensure Percent 100.0 68.6 33.2 5.3 2.7 1.8 0.6 0.3 3.0	Productionspiral and a second a	rtation, and iteration and ite	\$39.02 25.68 13,14 2.63 1.31 0.85 0.25 0.10	Percent 100.0 66.3 33.7 6.5 3.4 2.2 0.6 0.3 3.8	Cost \$33.30 22.89 10.31 2.33 1.13 0.58 0.37 0.15 0.97	Percent 100.0 69.0 31.0 7.0 3.4 2.0 1.1 0.5
Total compensation  Weges and salaries  Total benefits  Paid leave  Vecation Holiday Sick Personal  Supplemental pay Overtime and premium <sup>4</sup>	reso const maint Cost \$34.94 23.34 11.61 1.88 0.94 0.81 0.21 0.10	turel turces, ruetton, ruetton	Productionspiral Residence	rtation, and testing the state of the state	\$39.02 25.68 13,14 2.53 1.31 0.88 0.25 0.10	Percent 100.0 66.3 33.7 6.5 3.4 2.2 0.6 0.3	Ser provi	Percent 100.0 69.0 31.0 7.0 3.4 2.0 1.1 0.5 2.9 0.8
Total compensation	reso const maint Cost \$34.94 23.34 11.81 1.86 0.94 0.81 0.21 0.10 0.71	turel turces, ruction, and ensures Percent 100,0 68.8 33.2 5.3 2.7 1.8 0.3 3.0 2.0	Productions production in the control of the contro	rtation, and testing resistance of the state	\$39.02 25.88 13,14 2.53 1.31 0.88 0.25 0.10	Percent 100.0 66.3 33.7 6.5 3.4 2.2 0.6 0.3 3.8	Cost \$33.30 22.89 10.31 2.33 1.13 0.58 0.37 0.15 0.97	Percent 100.0 69.0 31.0 7.0 3.4 2.0 1.1 0.5
Total compensation  Wages and salaries  Total benefits  Patol leave  Vecation Holday Sixk  Personal  Supplemental pay Overtime and premiumal Shith differentiats Nenproduction bonuses	reso const maint Cost \$34.94 23.34 11.61 1.86 0.94 0.81 0.21 0.10 1.03 0.71 0.05 0.27 3.26	turel turces, ruction, and ensures  Percent  100.0 68.6 33.2 63.3 2.7 1.8 0.8 0.3 3.0 2.0 0.1 0.8	Productions of the state of the	ortation, not seem of the control of	25.68 13,14 2.63 1.31 0.85 0.25 0.10 1.49 0.50 0.84 3.67	Description of the control of the co	Cost \$33.30 22.69 10.31 2.33 1.13 0.58 0.37 0.15 0.97 0.20 0.05 0.72 2.68	Percent 100.0 69.0 31.0 7.0 3.4 2.0 1.1 0.5 2.9 0.8 0.2 2.2
Total compensation  Wages and salaries  Total benefits  Paid leave  Vacation  Holday  Sixk  Personal  Supplemental pay  Overtime and premium <sup>4</sup> Shit differentists  Nonproduction bonuses  Insurance  Life  Hoatth	reso const maint Cost \$34,94 23,34 11,81 0.94 0.81 0.20 1.03 0.71 0.05 0.27 3.26 0.04 3.11	turel turces, ruction, and ensures  Percent  100.0  66.6  33.2  5.3  2.7  1.8  0.6  0.3  2.0  0.1  5.8	Productions of the state of the	ortation, not seem of the control of	Cost \$39.02 25.68 13,14 2.53 1.31 0.85 0.10 1.49 0.59 0.84 3.67 0.08 3.47	Description of the second of t	Cost \$33.30 22.89 10.31 2.33 1.13 0.88 0.37 0.05 0.72 2.88 0.04 2.75	Percent 100.0 69.0 31.0 7.0 3.4 2.0 1.1 0.5 2.9 0.2 2.2 8.7 0.1 8.2
Component  Total compensation  Weges and salarias  Total benefits  Paid leave  Vecation  Holiday Sixk  Personal  Supplemental pay  Overtime and premium <sup>4</sup> Sixti differentiats  Neaproduction bonuses  Insurance  Life	reso const maint Cost \$34.94 23.34 11.81 1.88 0.94 0.21 0.10 0.05 0.27 3.26 0.04	turel tures, turel tures, turel tures, turel tures, and tures, and turel ture, and turel ture, and turel ture, and turel turel ture, and turel t	Productions of the control of the co	ortation, not letted when the certain when the certain when the certain to the certain to the certain	Cost \$39.02 25.68 13.14 2.53 1.31 0.88 0.25 0.10 1.49 0.58 0.88 0.88 0.88 0.88 0.88 0.88 0.88	Percent 100.0 66.3 33.7 6.5 3.4 2.2 0.6 0.3 3.5 1.5 0.2 2.1	Ser provided to the provided t	Percent 100.0 69.0 31.0 7.0 3.4 2.0 1.1 0.5 2.9 0.8 0.2 2.2 8.7 0.1
Total compensation  Weges and sataries  Total benefits  Patol leave Vecation Holiday Sick Personal  Supplementel pay Overtime and premium <sup>4</sup> Shift differentiats Nonproduction bonuses  Life Health Short-term disability	reso const	turel tross, rund tross, rund tross, rund tross, rund tross, rund tross	Productions of the control of the co	riation, not letter 100.0 65.8 34.2 6.0 3.0 0.7 0.3 1.3 10.8 2.0 0.1 10.3 0.2 4.5	Cost \$39.02 25.68 13,14 2.53 0.25 0.10 1.49 0.88 0.08 0.84 3.67 0.09 0.08 0.08 0.08 0.08 0.08 0.08 0.08	Percent 100.0 66.3 33.7 6.5 3.4 2.2 0.6 0.3 3.8 1.5 0.2 2.1 9.4 0.2 8.9 0.2 0.1 5.5	Ser provided to the provided t	Percent 100.0 69.0 31.0 7.0 3.4 2.0 1.1 0.5 2.9 0.2 2.2 8.7 0.1 8.2
Total compensation  Weges and salaries  Total benefits  Patol leave Vecation Holiday Sick Personal  Supptementel pay Overtime and premium <sup>4</sup> Shift differentiats Nonproduction bonuses haurance Life Health Short-term disability Long-term disability	reso constitution of the c	turel trues, rection, and ensures  Percent 100.0 66.6 33.2 5.3 2.7 1.8 0.6 0.3 3.0 1.0 5.0 0.1 0.5 0.1 0.1 0.5 0.1 0.1 0.5 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Productions of the control of the co	ortation, not lead to the lead	\$39.02 25.68 13,14 2.53 1.31 0.88 0.25 0.10 1.49 0.08 0.84 3.87 0.03 3.47 0.08	Description of the second of t	Ser provided to the provided t	Percent 100.0 69.0 31.0 7.0 3.4 2.0 1.1 0.5 2.9 0.2 2.2 2.7 0.1 8.2 0.1 0.1
Total compensation  Weges and salaries  Total benefits  Paid leave  Vecation  Holday Sixk  Personal  Supplemental pey Overtime and premkurd Skith differentials Nonproduction bonuses  Insurance Life Hoatth Short-term disability Long-term disability  Retirement and savings Defined benefit  Defined contribution  Legally required benefits	reso constitution of the c	turel tures, rection, and ensures  Percent 100.0 68.6 33.2 5.3 2.7 1.8 0.3 2.7 1.8 0.3 2.0 0.1 0.5 9.3 0.1 8.9 0.2 0.1 8.9 1.7 9.5	Productions of the control of the co	ortation, and learning through the learning through through the learning	Cost \$39.02 25.68 13.14 2.53 0.25 0.10 1.49 0.85 0.84 0.05 2.16 1.21 0.95 3.47 0.05 3.47 0.95 3.29	Percent 100.0 66.3 33.7 6.5 3.4 2.2 0.6 0.3 3.5 1.5 0.2 2.1 9.4 0.2 8.9 0.1 5.5 3.1 2.4 8.4	Ser provided to the provided t	Percent 100.0 69.0 31.0 7.0 3.4 2.0 1.1 0.5 2.9 0.2 2.2 8.7 0.1 8.2 0.1 6.1 3.3 1.9
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Total compensation  Weges and selectes  Total benefits  Paid leave  Vecation  Holday Sick  Personal  Supplemental pay  Overtime and premium <sup>4</sup> Sint differentials  Nonproduction bonuses  Insurance Life Health Short-term disability Long-term disability Retirement and savings  Defined benefit Defined contribution  Legally required benefits Social Security <sup>7</sup> Medicare	reso const   maint   Cost   \$34.94   23.34   11.61   1.86   0.94   0.61   0.21   0.75   0.27   3.66   0.04   3.11   0.03   2.10   1.49   0.61   3.35   1.98	turel tross, rection, and enserce Percent 100.0 66.6 33.2 5.3 2.7 1.8 0.6 0.3 3.0 2.01 0.8 9.3 0.1 8.9 0.2 0.1 6.9 4.3 1.7 9.5 5.6 4.5 1.1	Productions of the control of the co	reason, moderated wing Percental 100.0 65.8 34.2 6.0 3.0 0.7 0.3 3.6 2.0 0.3 1.3 10.8 2.0 1.3 10.3 0.2 4.5 2.6 1.8 9.3 5.8 4.5 1.1	Cost \$39.02 25.68 13.14 2.53 1.31 0.88 0.25 0.10 1.49 0.85 0.84 3.67 0.08 0.05 2.16 1.21 0.95 3.28 2.18	Percent  100.0  66.3  33.7  6.5  3.4  2.6  0.3  3.8  1.5  2.1  9.4  9.4  9.2  9.1  9.4  9.4  9.4  9.5  9.5  9.1  9.4  9.4  9.5  9.5  9.6  9.7  9.8  9.8  9.8  9.8  9.8  9.8  9.8	Cost \$33.30 22.89 10.31 2.33 1.13 0.87 0.25 0.72 2.88 0.04 2.75 0.05 0.72 2.88 1.69 1.09 0.60 2.43 1.83 1.45 0.38	Percent 100.0 69.0 31.0 7.0 3.4 2.0 1.1 0.5 2.9 0.2 2.2 8.7 0.1 8.2 0.1 6.1 3.3 1.8 7.3 6.5 4.4
Total compensation  Weges and salaries  Total benefits  Paid leave Vecation Holday Sixt Personal  Supplementel pay Overtime and premium <sup>4</sup> Shift differentiats Nonproduction bonuses Insurance Life Health Short-term disability Long-term disability Referement and savings Defined benefit Defined contribution  Legally required benefits Social Security and Medicare Social Security and Medicare	reso const maint Cost \$34.94 23.34 11.81 1.88 0.94 0.81 0.21 0.10 1.03 0.71 0.05 0.27 3.26 0.04 3.11 0.05 0.03 2.10 1.49 0.81 1.98 1.59 0.38	turel trues, rection, and ensures  Percent 100.0 66.6 33.2 5.3 2.7 1.8 0.3 2.7 1.8 0.3 2.0 0.1 0.5 9.3 0.1 8.9 0.2 0.1 6.8 4.3 1.7 9.5 5.6 4.5 4.5	Productions of the control of the co	ortation, not lead to the lead	Cost \$39.02 25.68 13.14 2.53 1.31 0.88 0.25 0.10 1.49 0.88 0.84 3.67 0.05 2.16 1.21 0.95 3.27 2.18 1.76 0.43	Description of the second of t	Ser provided to the provided t	Percent 100.0 69.0 31.0 7.0 3.4 2.0 1.1 0.5 2.9 0.2 2.2 8.7 0.1 8.2 0.1 6.1 3.3 1.8 7.3 5.5 4.4

Source: Employer Costs for Employee Compensation - September 2016, U. S. Department of Labor, Bureau of Labor Statistics, December, 2016

<sup>1</sup> Includes workers in the private nonfarm economy excluding households and the public sector excluding the Federal government.
2 Includes mining, construction, and manufacturing. The agriculture, lorestry, farming, and hunting sector is excluded.
3 Includes utilities; wholesate trade; retail back; transportation and warehousing; information; finance and instrumce; rest estate and rental and leashing professional and facthinals services; management of completives and matterities and wasterities and wasterities and wasterities and wasterities and vasterities and recreation; accommodation and food services; other services, except public administration.
4 Includes premium pay (such as overtime, weakends, and holidays) for work in addition to the regular work achedule.
5 Cost per hour worked is 30.01 or less.
6 Less than .05 percent.
7 Social Security refers to the Old-Age, Survivors, and Disability Insurance (OASDI) program.

# Estimated annual value of household services

	Hours per week spent in non-market work	Hourly wage 2	Annual dollar value (2010\$)
MALES	14.13	\$10.17	\$ 7,472
FEMALES	22.12	\$10.17	\$11,698
	Hours per week spent in child care	Hourly wage <sup>2</sup>	Annual dollar value (2010\$)
MALES	2.89	\$10.17	\$ 1,528
FEMALES	6,42	\$10.17	\$ 3,395

## Sources:

- 1. "Time Use During the Great Recession", Mark Aguiar, Erik Hurst, and Loukas Karabarbounis, American Economic Review, August, 2013, 103(5): 1664-1696 and Online Appendix.
- 2. Mean hourly wage, maids and housekeeping cleaners, Occupational Employment and Wages, 2010, Bureau of Labor Statistics, United States Department of Labor.

#### Curriculum Vitae

Gary M. Crakes

Birthdate: July 2, 1953

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# Education

- Ph.D. (Economics) 1984, University of Connecticut
- M.A. (Economics) 1976, University of Connecticut
- B.A. (Economics) 1975, Central Connecticut State College

# Fellowships and Honors

- 2017 Biographical listing, Who's Who in America
- 2004 Honored, Trial Lawyers Care, Association of Trial Lawyers of America, for pro bono economic services, September 11<sup>th</sup> Victim Compensation Fund
- 1998 School of Business Outstanding Teacher Award
- 1987 University Teacher of the Year Award
- 1985 Member, State of Connecticut Senior Economist Examination Committee
- 1983 Richard D. Irwin Fellowship
- 1983 University of Connecticut Dissertation Fellowship
- 1975-1976 University of Connecticut Pre-doctoral Fellowship

## Professional Organizations

American Economic Association
Eastern Economic Association
Omicron Delta Epsilon
National Association of Forensic Economists
American Academy of Economic and Financial Experts
American Association of University Professors
National Association of Business Economics

## Professional Experience

- 1981 Economic consultant, Maher, Crakes, and Associates
- 2011 Professor Emeritus, Department of Economics and Finance, School of Business, Southern Connecticut State University
- 1989 2011 Professor, Department of Economics and Finance, School of Business, Southern Connecticut State University
- 1991-1995 Chairman, Department of Economics and Finance, School of Business, Southern Connecticut State University
- January 1988-June 1988 Visiting Professor, Department of Behavioral Science and Community Health, School of Dental Medicine, University of Connecticut Health Center
- September 1985-August 1989 Associate Professor, School of Business, Southern Connecticut State University (tenured, 1986)
- August 1980 August 1985 Assistant Professor, School of Business, Southern Connecticut State University
- January 1979-May 1980 Instructor, University of Connecticut (Hartford)
  June 1976-December 1978 Research Assistant, University of Connecticut Health
  Center. Research Assistant, School of Agriculture, University of Connecticut

#### Publications

#### Journals

- Crakes, G. and Cottrill, M. "The Connecticut State Income Tax:
  Progressive, Regressive, and Proportional," <u>Journal of the American</u>
  Academy of Business, (September, 2007)
- Cottrill, M. and Crakes, G. "A Different Look at "Pay for Performance":
  Returns to Bench Strength in the NFL," <u>The Business Review, Cambridge</u>,
  (December, 2004).
- Beazoglou, T., Crakes, G., Doherty, N. and Heffley, D. "Determinants of Dentists' Geographic Distribution," <u>Journal of Dental Education</u> (November, 1992)
- Doherty, N. and Crakes, G. "Estimating the Costs of Public Dental Programs: Mobile Clinics," Community Dental Health (Spring, 1987).
- Crakes, G. "A Comparison of Economic Estimates of Loss with Jury Awards and Pre-verdict Settlements," Business Journal (Fall, 1985).
- Doherty, N. and Crakes, G. "Economic Specification of Cost Estimates in Dental Programs," Journal of Dental Research (June, 1985).
- Doherty, N. and Crakes, G. "Adjusting Social Program Costs for Research and Evaluation Activities," Evaluation Review (August, 1980).
- Doherty, N. and Crakes, G. "Commentary: Reply to Joan Quinn," <u>Inquiry</u> (Summer, 1980).
- Doherty, N., Horowitz, P. and Crakes, G. "Real Costs of Dental Care in Private and Public Practice," <u>Medical Care</u> (January, 1980).
- Doherty, N. and Crakes, G. "The Impact of a Change in Regulation on Costs in an Experimental Program," Inquiry (Summer, 1979).

# Proceedings

- Crakes, G. with Cottrill, M. "The Growth of Student Indebtedness and the Role of Higher Education as a U.S. Response to Globalization,"

  Proceedings of the Global Conference on Business & Economics,

  Association for Business & Economics Research, October, 2007
- Crakes, G. with Cottrill, M. "The Rising Relative Price of Higher Education and the U.S. Response to Offshore Outsourcing,"

  Proceedings of the New England Business Administration Association,
  May, 2007.
- Crakes, G. with Cottrill, M. "More on "Pay for Performance"-The Disruptive Effect of Star Power in the NFL," <u>Proceedings of the New England Business Administration Association</u>, May, 2005.
- Crakes, G. with Crakes, A. "Education, Earnings, and the NCAA Student Athlete," <a href="Proceedings of the New England Business Administration">Proceedings of the New England Business Administration</a> Association, May, 2004.

- Crakes, G. with Cottrill, M. and Crakes, J. "Context for the Medical Malpractice Insurance Debate," <a href="Proceedings of the Conference on Emerging Issues in Business and Technology">Proceedings of the Conference on Emerging Issues in Business and Technology</a>, October, 2003.
- Crakes, G. with Thorson, J. and Cottrill, M. "The Impact of Law Firm Concentration on Lawyers' Salaries," <a href="Proceedings of the New England Business Administration Association">Proceedings of the New England Business Administration Association</a>, April, 2000.
- Crakes, G. with Thorson, J. and Cottrill, M. "Are Baseball Players
  Overpaid? An Analysis of Major League Baseball Salaries," Proceedings
  of the Northeast Business & Economics Association, October, 1998.
- Crakes, G. with Cottrill, M. "The Connecticut State Income Tax and the Equal Sacrifice Rule," <u>Proceedings of the New England Business</u>
  Administration Association, November, 1997.
- Crakes, G. with Cottrill, M. "Banking It Before the Bar: Legal Compensation Trends in Major Markets," <u>Proceedings of the Northeast Business & Economics Association</u>, September, 1997.
- Crakes, G. with Cottrill, M. "Young and Old Scholars," <u>Proceedings of the Eastern Case Writers Association/Eastern Academy of Management</u>, May, 1994.

#### **Abstracts**

Crakes, G. and Doherty, N. "Costs of Public Dental Clinics Under Capacity Utilization," <u>Journal of Dental Research</u> (January, 1979).

## Technical Reports

Doherty, N., Horowitz, P. and Crakes, G. "Analysis of Economic Factors Associated with Providing Incremental Dental Care to Children" for the National Institute of Health, United States Public Health Service, 1978.

## Other

- Economic Consultant, 4<sup>th</sup> edition, 1995, Recovery for Wrongful Death and Injury: Economic Handbook, Stuart M. Speiser and John Maher, Clark, Boardman, & Callaghan, New York, N.Y..
- Economic Consultant (with J. Maher), 3rd edition, 1988 Recovery for Wrongful Death and Injury: Economic Handbook, Stuart M. Speiser, Bancroft, Whitney/Lawyers Cooperative Publishing, Rochester, N.Y..
- Crakes, G.M. "CSUS Chief's Bonus Appalls," <u>Hartford Courant</u>, December 20, 2009.
- Crakes, G.M. "Competition Causing Disagreement Over Deregulation," New Haven Register, August 6, 1981.

#### Conferences

# Papers Presented

- Co-author of paper titled "Do Older Workers Respond to Incentives?

  Evidence From the Senior PGA Tour" (with M. Cottrill and J. Thorson, presenter) presented at the annual Connecticut State University Research Conference, October, 1999, Eastern Connecticut State University.
- Presented co-authored paper titled "The Intra and Inter-State Distribution of Dentists" (with T. Beazoglou and D. Heffley) at the annual meeting of the Eastern Economic Association, March 3, 1989 in Baltimore, MD.
- Co-author of paper titled "Determinants of Dentists' Geographic Distribution" (with T. Beazoglou and D. Heffley, presenter) presented at the meeting of the American Association of Dental Research, March 15, 1989 in San Francisco, CA.
- Presented co-authored paper titled "Estimating Dental Practice Production Functions with Alternative Output Measures" (with T. Beazoglou) at the annual meeting of the Eastern Economic Association, March 4-7, 1987 in Washington, D.C.
- Presented paper titled "A Comparison of Economic Estimates of Loss with Jury Awards and Pre-verdict Settlements" at the meeting of the Atlantic Economic Society, August 29 September 1, 1985 in Washington, D.C.
- Presented co-authored paper titled, "A Re-examination of the Returns to Scale of Dental Practices" (with T. Beazoglou) at the annual meeting of the Eastern Economic Association, March 21-23, 1985 in Pittsburgh,
- Presented co-authored paper titled "Economic Specification of Costs of Dental Programs" (with N. Doherty) at the annual meeting of the Eastern Economic Association, March 21-23, 1985 in Pittsburgh, PA.

#### Other

- Chairperson of session, "Economics" at the annual meeting of the New England Business Administration Association, April, 1993 in New Haven, CT.
- Chairperson and organizer of session, "Health Economics" at the annual meeting of the Eastern Economic Association, March 28, 1992 in New York City, NY.
- Discussant of paper titled, "Massachusetts Hospitals in the Eighties: Financial Analysis of Large Urban and Other Hospitals" at the annual meeting of Northeast Business Economics Association, November 7, 1991 in Stamford, CT.

- Discussant of paper titled, "Female Work Experience: Voluntary vs.
  Involuntary Labor Force Activity" at the meeting of the National
  Association of Forensic Economists, March 4, 1989 in Baltimore, MD
- Discussant of paper titled "Diogenes' Expenses: The Costs to the Court of Seeking Truth in Medical Malpractice Cases" at the annual meeting of the Eastern Economic Association, March 12, 1988 in Boston, MA.
- Discussant of paper titled "Present Value and the Structure of Interest Rates" at the meeting of the National Association of Forensic Economists, March 11, 1988 in Boston, MA.
- Chairperson of session, "Topics in Health Economics" at the annual meeting of the Eastern Economic Association, March 11, 1983 in Boston, MA.
- Discussant of paper titled "The Nursing Shortage and Its Associated Planning Problems" at the annual meeting of the New England Business and Economics Association, November 5, 1982 in Springfield, MA.
- Coordinator and moderator for "The Role of Preventative Care: Is It a Healthy Alternative?" sponsored by the Joint Council on Economic Education, April 23, 1981, Southern Connecticut State College.